# ORIGINAL





## Sulphur Springs Valley Electric Cooperative, Inc.

A Touchstone Energy\* Cooperative



311 E. Wilcox Dr. • Sierra Vista, AZ 85635

February 15, 2012

Arizona Corporation Commission DOCKETED

FEB 1 5 2012

**Docket Control Arizona Corporation Commission** 1200 W. Washington St. Phoenix, AZ 85007

DOCKETED BY



Re:

2011 Annual Compliance Report by Sulphur Springs Valley Electric Cooperative,

Inc. (SSVEC); Docket No. E-01575A-10-0308.

Dear Sir or Madam:

Pursuant to the requirements of A.A.C. R14-2-1812 (A) & (B), SSVEC submits our Annual Compliance Report for the calendar year 2011. An electronic copy of this report is also being transmitted to the Director of the Utilities division.

Sincerely,

Chief Member Services Officer Sulphur Springs Valley Electric Cooperative, Inc.

JSB/db Enclosure

Original and 13 copies filed with Docket Control this 15th day of February, 2012

#### SULPHUR SPRINGS VALLEY ELECTRIC COOPERATIVE, INC.

## RENEWABLE ENERGY STANDARD AND TARIFF COMPLIANCE REPORT FOR 2011 R14-2-1814

#### INTRODUCTION

Pursuant to A.A.C. R14-2-1814, Sulphur Springs Valley Electric Cooperative, Inc. (SSVEC) submits our compliance report for calendar year 2011. This report relates to the REST plan for 2011 and 2012 was approved by Decision No. 72395 dated May 27, 2011 pursuant to R14-2-1814

## **EXECUTIVE SUMMARY**

The REST Plan uses surcharge dollars from SSVEC retail tariffs to support programs for developing renewable facilities, purchasing renewable energy and participation in large-scale renewable generation projects. Funds are also used for administration, advertising and educational activities.

This report covers activity for calendar year 2011. R14-2-1814.A provides that upon approval of SSVEC's REST Plan, its provisions substitute for the Annual Renewable Energy and Distributed Renewable Energy requirements of rules 1804 and 1805, respectively. SSVEC's current retail tariffs (as required under the REST Rules) were approved by the Commission at its Open Meeting on May 27, 2011.

With the change in Federal Tax rules in 2009, our requests for incentives exceeded our available funds and a reservation system was initiated to fairly deal with the backlog of requests. Incentives are paid based on the REST program in place at the time we accepted the reservation. By the end of 2011 we paid the last of the 2009 program residential reservations and began working on the 2010 reservations. All customers still on the reservation list were advised at the time they reserved their incentives that we were "oversubscribed" and would have to wait for their reservations to reach the "top of the list". Our customers have appreciated our open communication regarding the reservation list and with the decline in the cost of PV systems have been able to install their systems at a noticeable savings from the time they reserved their incentives.

## **POINT of CONTACT**

For questions regarding this report please contact:

David Bane SunWatts Program Manager 520-515-34725 dbane@ssvec.com

| 2011 REST p                                | ro   | gram        |                       | **************************************  |
|--|------|-------------|-----------------------|---|
| Year End Finac                             |      |             | t                     |   |
|  | E    | stimated RE | ST C                  | Collections                             |
| I  | \$   | 3,311,791   |                       | Actual                                  |
| Income                                     |      |             | 1                     | Collected                               |
| Loan Fund from Surcharge                   | \$   | 200,000     | \$                    | 206,232                                 |
| Program Costs (R&D, Advertising, Admin)    | \$   | 225,000     | \$                    | 232,011                                 |
| Habitat for Humanity projects              | \$   | 15,000      | \$                    | 15,467                                  |
| School Solar Project (debt service)        | \$   | 1,000,000   | \$                    | 1,031,160                               |
| Utility Scale Project                      | \$   | 650,000     | \$                    | 670,254                                 |
| SunWatts Incentives Residential            | \$   | 806,708     | \$                    | 831,845                                 |
| SunWatts Incentives Commercial             | \$   | 315,537     | \$                    | 325,369                                 |
| PBI Residential                            | \$   | 55,000      | \$                    | 56,714                                  |
| PBI Commercial                             | \$   | 45,000      | \$                    | 46,402                                  |
| Evnance                                    |      |             | \$<br>%               | 3,415,453<br>of Budget<br>spent         |
| Expenses Loan Fund                         | 1 \$ | 148,504     |                       | 72%                                     |
| R&D  | \$   | 24,271      |                       |   |
| Advertising                                | \$   | 367         | Majaraja<br>Projektak | 61%                                     |
| Administration                             | \$   | 115,938     |                       |   |
| Habitat for Humanity projects              | \$   | -           |                       | 0%                                      |
| School Solar Project (CREBs 1debt service) | \$   | 788,018     |                       | 76%                                     |
| Utility Grade Project                      | \$   | -           |                       | 0%                                      |
| SunWatts Incentives Residential            | \$   | 1,324,727   |                       | 159%                                    |
| SunWatts Incentives Commercial             | \$   | 590,436     |                       | 181%                                    |
| PBI Residential                            | \$   | 56,118      |                       | 99%                                     |
| PBI Commercial                             | \$   | 40,439      |                       | 87%                                     |
| Total                                      | \$   | 3,088,817   |                       | *************************************** |
| Year End Balance                           | \$   | 326,636     | À                     |   |

NOTE: The utility grade project has not been started so there was no debt to service. Funds for debt service were used to accelerate the backlog of incentives for Residential and Commercial customers.

## **REST Compliance Report for 2011**

1. The actual kWh of energy or equivalent obtained from Eligible Renewable Energy Resources ("ERER")

| Residential | Sys | tem Co  | unt  | kW      | kWh    | kW   | Est. 2  | 011 Production | (kWH) |
|-------------|-----|---------|------|---------|--------|------|---------|----------------|-------|
| Month       | PV  | SWH     | Wind | PV      | SWH    | Wind | PV      | SWH            | Wind  |
| Jan         | 5   | 5       |      | 26.551  | 15,798 |      | 57,350  | 15,798         | 0     |
| Feb         | 5   | 3       |      | 28.106  | 9,034  |      | 55,650  | 8,281          | 0     |
| Mar         | 10  | 1       | 1    | 62.5    | 3,347  | 1    | 112,500 | 2,789          | 48    |
| Apr         | 11  | 1       |      | 55.8    | 2,600  |      | 90,396  | 1,950          | 0     |
| May         | 3   | 1       |      | 14.4    | 3,034  |      | 20,736  | 2,023          | 0     |
| Jun         | 6   | 5       |      | 41.649  | 12,565 |      | 52,478  | 7,330          | 0     |
| Jul         | 6   | 1       |      | 23.324  | 2,177  |      | 25,190  | 1,089          | 0     |
| Aug         | 9   | 0       |      | 46.81   | -      |      | 42,129  | -              | 0     |
| Sep         | 10  | 3       |      | 54.74   | 8,834  |      | 39,413  | 2,945          | 0     |
| Oct         | 9   | 1       |      | 41.505  | 3,034  |      | 22,413  | 759            | 0     |
| Nov         | 8   | 6       |      | 36.92   | 20,967 |      | 13,291  | 3,495          | 0     |
| Dec         | 7   | 7       |      | 23.735  | 20,870 |      | 4,272   | 1,739          | 0     |
| Totals      | 89  | 34      | 1    | 456.04  | 102260 | 1    | 535,818 | 48,196         | 48    |
| C&I         | Svs | tem Cou | ınt  | kW      | kWh    | kW   | Est. 20 | 011 Production | (kWH) |
| Month       | PV  | SWH     | Wind | PV      | SWH    | Wind | PV      | SWH            | Wind  |
| Jan         | 2   |         |      | 57.1    |        |      | 123,336 | -              | 0     |
| Feb         | 6   |         |      | 108.615 |        |      | 215,058 | -              | 0     |
| Mar         | 2   |         |      | 18.68   |        |      | 33,624  | -              | 0     |
| Apr         |     | 4       |      |         | 11,878 |      | -       | 8,909          | 0     |
| May         |     |         |      |         |        |      | -       | -              | 0     |
| Jun         | 2   |         |      | 35.22   |        |      | 44,377  | -              | 0     |
| Jul         |     |         |      |         |        |      | -       | -              | 0     |
| Aug         | 1   |         |      | 1.32    |        |      | 1,188   | -              | 0     |
| Sep         | 3   |         |      | 47.915  |        |      | 34,499  | -              | 0     |
| Oct         | 7   |         |      | 56.53   |        |      | 30,526  | -              | 0     |
| Nov         | 4   |         |      | 113.462 |        |      | 40,846  | <u>-</u>       | 0     |
| Dec         | 3   |         |      | 36.94   |        |      | 6,649   | -              | 0     |
| Totals      | 30  | 4       | 0    | 475.782 | 11878  | 0    | 530,103 | 8,909          | 0     |

Note: SSVEC does not require PV production meters so all production is estimated using the following formula:

DC nameplate rating X 6 hours X 365 days

2. The kWh of energy or equivalent obtained from the ERER normalized to reflect a full year's production

| Residential                                     | Sys                  | tem Cou | unt         | kW   | kWh        | kW                                     | Normalized   | ction (kWH)      |  |
|---|----------------------|---------|-------------|--|------------|--|--|------------------|--|
| Month   | PV                   | SWH     | Wind        | PV   | SWH        | Wind                                   | PV   | SWH              | Wind                                       |
| Jan   | 5                    | 5       |             | 26.551   | 15,798     |  | 57,350   | 15,798           | (  |
| Feb   | 5                    | 3       |             | 28.106   | 9,034      |  | 60,709   | 9,034            | (  |
| Mar   | 10                   | 1       | 1           | 62.5   | 3,347      | 1                                      | 135,000  | 3,347            | 57.6                                       |
| Apr   | 11                   | 1       |             | 55.8   | 2,600      |  | 120,528  | 2,600            | (  |
| May   | 3                    | 1       |             | 14.4   | 3,034      |  | 31,104   | 3,034            | (  |
| Jun   | 6                    | 5       |             | 41.649   | 12,565     |  | 89,962   | 12,565           | (  |
| Jul   | 6                    | 1       |             | 23.324   | 2,177      |  | 50,380   | 2,177            | C  |
| Aug   | 9                    | 0       |             | 46.81  | -          |  | 101,110  | -                | C  |
| Sep   | 10                   | 3       |             | 54.74  | 8,834      |  | 118,238  | 8,834            | C  |
| Oct   | 9                    | 1       |             | 41.505   | 3,034      |  | 89,651   | 3,034            | C  |
| Nov   | 8                    | 6       |             | 36.92  | 20,967     |  | 79,747   | 20,967           | C  |
| Dec   | 7                    | 7       |             | 23.735   | 20,870     |  | 51,268   | 20,870           | C  |
| Totals  | 89                   | 34      | 1           | 456.04   | 102260     | 1                                      | 985,046  | 102,260          | 57.6                                       |
|   |                      |         |             |  |            | ······································ |  |                  |  |
| C&I   | Svs                  | tem Cou | ınt         | kW   | kWh        | kW                                     | Normalized   | full 2011 Produc | ction (kWH)                                |
| C&I<br>Month                                    | Sys                  | tem Cou |             | kW<br>PV   | kWh<br>SWH | kW<br>Wind                             | Normalized<br>PV   | full 2011 Produc | ction (kWH)<br>Wind                        |
| Month   | PV                   |         | unt<br>Wind | PV   |            |  | PV   |                  | Wind                                       |
| Month<br>Jan                                    |                      |         |             | PV<br>57.1   |            |  | PV<br>123,336  | SWH              | Wind<br>0                                  |
| Month<br>Jan<br>Feb                             | PV 2                 |         |             | PV   |            |  | PV<br>123,336<br>234,608   | SWH              | Wind<br>0                                  |
| Month<br>Jan<br>Feb<br>Mar                      | PV 2                 |         |             | PV<br>57.1<br>108.615  | SWH        |  | PV<br>123,336  | SWH              | Wind 0                                     |
| Month<br>Jan<br>Feb<br>Mar<br>Apr               | PV 2                 | SWH     |             | PV<br>57.1<br>108.615  |            |  | PV<br>123,336<br>234,608   | SWH              | Wind 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| Month<br>Jan<br>Feb<br>Mar                      | PV 2                 | SWH     |             | PV<br>57.1<br>108.615  | SWH        |  | PV<br>123,336<br>234,608   | SWH              | Wind 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| Month<br>Jan<br>Feb<br>Mar<br>Apr<br>May        | PV 2 6 2 2           | SWH     |             | PV<br>57.1<br>108.615<br>18.68                                     | SWH        |  | PV<br>123,336<br>234,608<br>40,349   | SWH              | Wind 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| Month<br>Jan<br>Feb<br>Mar<br>Apr<br>May<br>Jun | PV 2 6 2 2           | SWH     |             | PV<br>57.1<br>108.615<br>18.68                                     | SWH        |  | PV<br>123,336<br>234,608<br>40,349   | SWH              |  |
| Month<br>Jan<br>Feb<br>Mar<br>Apr<br>May<br>Jun | PV 2 6 2 2 2         | SWH     |             | PV<br>57.1<br>108.615<br>18.68<br>35.22                            | SWH        |  | PV<br>123,336<br>234,608<br>40,349<br>-<br>-<br>76,075                                     | SWH              | Wind 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| Month Jan Feb Mar Apr May Jun Jul               | PV 2 6 2 2 2 1       | SWH     |             | PV<br>57.1<br>108.615<br>18.68<br>35.22                            | SWH        |  | PV<br>123,336<br>234,608<br>40,349<br>-<br>-<br>76,075<br>-<br>2,851                       | SWH 11,878       | Wind 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| Month Jan Feb Mar Apr May Jun Jul Aug Sep Oct   | PV 2 6 2 2 2 1 3     | SWH     |             | PV<br>57.1<br>108.615<br>18.68<br>35.22<br>1.32<br>47.915          | SWH        |  | PV<br>123,336<br>234,608<br>40,349<br>-<br>-<br>76,075<br>-<br>2,851<br>103,496            | SWH              | Wind 0                                     |
| Month Jan Feb Mar Apr May Jun Jul Aug           | PV 2 6 2 2 2 1 3 7 7 | SWH     |             | PV<br>57.1<br>108.615<br>18.68<br>35.22<br>1.32<br>47.915<br>56.53 | SWH        |  | PV<br>123,336<br>234,608<br>40,349<br>-<br>-<br>76,075<br>-<br>2,851<br>103,496<br>122,105 | SWH              | Wind 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |

Note: SSVEC does not require PV production meters so all production is estimated using the following formula:

DC nameplate rating X 6 hours X 365 days

3. The kW of generation capacity, disaggregated by technology type

|          | P        | v            | Win   | d       | Other | r                                       | Sola  | r WH    |  |
|----------|----------|--------------|-------|---------|-------|---|-------|---------|--|
|          | Count    | Watts        | Count | Watts   | Count | RECs                                    | Count | RECs    |  |
| 2005     | 37       | 35,593       |       |         |       |   |       |         |  |
| 2006     | 14       | 16,790       |       | Π.      |       |   |       |         |  |
| 2007     | 49       | 83,145       | 3     | 15,000  |       |   |       |         |  |
| 2008     | 77       | 149,416      | 10    | 22,000  | 1     | 1,604,129                               |       |         |  |
| 2009     | 237      | 1,769,013    | 18    | 56,690  | 1     | 1,047,000                               | 42    | 102,205 |  |
| 2010     | 127      | 568,404      | 4     | 9,200   | 2     | 3,635,621                               | 22    | 61,999  |  |
| 2011 YTD | 119      | 931,442      | 1     | 1,000   | 2     | 3,026,088                               | 38    | 114,138 |  |
| Totals   | 660      | 3,553,803    | 36    | 103,890 | 2     | 9,312,838                               | 102   | 278,342 |  |
|          | Total Sv | stem Count = | 800   |         |       | *************************************** |       |         |  |

The "Other" renewable technologies in the SSVEC REST program are:

- 1 Biomass Boiler using Pecan Shells to replace a Natural Gas Boiler
- 1 GeoThermal well to replace a Natural Gas Boiler.

4. Cost information regarding cents per actual kWh of energy obtained from ERER and cents per kW of generation capacity, disaggregated by technology type

## Residential PV

| Incentives Paid in 2011                                | \$ 1,179,804    |
|--|-----------------|
| Capacity of systems that received an incentive in 2011 | 403.145 kW      |
| Estimated 30 year production                           | 26,489,626 RECs |
| Estimated Cost per REC                                 | \$0.0445        |
| Estimated Cost per kW                                  | \$2,926.50      |

## Residential SWH

| Incentives paid in 2011               | \$ 110,798    |
|---------------------------------------|---------------|
| Annual kWh production                 | 151,203 kWh   |
| Estimated 20 year production          | 3,024,060 kWh |
| Estimated Cost per kWh (20 year term) | \$0.0366      |

## Residential Wind

| Incentives paid in 2011                                | \$ 12,570  |
|--|------------|
| Capacity of systems that received an incentive in 2011 | 3.4 kW     |
| Estimated 30 year production                           | 7,446 RECs |
| Estimated Cost per REC                                 | \$1.688    |
| Estimated Cost per kW                                  | \$3,697.05 |

## Commercial PV

| Incentives paid in 2011                                | \$ 434,208     |
|--|----------------|
| Capacity of systems that received an incentive in 2011 | 119.43 kW      |
| Estimated 30 year production                           | 7,846,551 RECs |
| Estimated Cost per REC                                 | \$0.0553       |
| Estimated Cost per kW                                  | \$3,635.67     |
|  |                |

## Commercial SWH

| Incentives paid in 2011               | \$8,224     |
|---------------------------------------|-------------|
| Annual kWh production                 | 11,878 kWh  |
| Estimated 20 year production          | 237,560 kWh |
| Estimated Cost per kWh (20 year term) | \$0.0346    |

5. A breakdown of the Renewable Energy Credits used to satisfy both the Annual Renewable Energy Requirement and the Distributed Renewable Energy Requirement and appropriate documentation of the Affected Utility's receipt of those Renewable Energy Credits

For 2011 SSVEC does not have any Utility Scale system nor did we purchase any RECs from a qualifying facility. Because of our backlog of reservations for Residential and Commercial systems we did not feel it was appropriate to purchase RECs while we owe incentives to Customers.

| Program Totals Co | nverted to RECs |                        |  |                        |              |              |
|-------------------|-----------------|------------------------|--|------------------------|--------------|--------------|
| Assumption        | 6 hrs x namepla | ate x 365 = annual RE  | Cs   |                        |              |              |
| Assumption        | Wind has a 20%  | load factor (i.e. only | y produces nam   | eplate output 20% of   | the day)     |              |
| PV watt           | 3,553,803       |                        |  |                        |              |              |
| Wind Watts        | 103,890         |                        |  |                        |              |              |
| PV RECs           | 7,782,829       |                        |  |                        |              |              |
| Wind RECs         | 182,015         |                        |  |                        |              |              |
| Other RECs        | 3,026,088       |                        |  |                        |              |              |
| SWH RECs          | 278,342         |                        | and the state of t |                        |              |              |
| Total RECs        | 11,269,274      | Per Year (2011 YTD     | )  |                        |              |              |
| 2011 MWh sales =  | : 835,767       |                        | Renewable G  | oal = 12,537 MWh       | Achieved YTD | = 11,269 MWh |
|                   |                 |                        | Percentage o   | of goal achieved = 90% |              |              |
|                   |                 | ,                      |  |                        |              |              |

## The following is the production report for the GeoThermal project

|                    |              |        |  |                        |                  |                   |           | REST      | Pa      | yments    |     |          |          |          |         | RECs Assi | gned    |       |
|--------------------|--------------|--------|--|------------------------|------------------|-------------------|-----------|-----------|---------|-----------|-----|----------|----------|----------|---------|-----------|---------|-------|
|                    | Actual Produ | iction |  |                        |                  | Monthly Total Max |           | SSVEC     |         | Mec       |     | GCEC .   |          | OVEC     | SSVEC   | MEC       | ecec    | SVEC  |
| danth              | Date         | Days   | Meter Readings   | CETU                   | RECs             | Incentive corsens |           | 40%       |         | 33%       |     | 19%      |          | 8%       | 40%     | 33%       | 19%     | 8%    |
| ecember            | 12/31/2020   |        | 1,133,209  |                        |                  |                   |           |           |         |           |     |          |          |          |         |           |         |       |
| SOSSAFY            | 1/81/2013    | 81     | 2,391,391  | 2,993,395              | 347,758          | \$ 38.149.03      | 5         | 15,259,61 | 2       | 12,599.18 | 3   | 2,848.91 | ٤.       | 8,051.92 | 899,100 | 229,259   | 141,074 | 67,87 |
| etwary             | 8/1/2011     | 26     | 4,620,074  | 1,426,683              | 418,034          | 5 28,823.65       | \$        | 2,524,26  | 8       | 6,207.51  | \$  | 3,574.02 | ٤        | 1,304.25 | 187,708 | 187,945   | 79,423  | 89,42 |
| ture is            | 4/1/2011     | 31     | 5,786,779  | 1,464,705              | 429,743          | \$ 19,888.33      | \$        | 7,735.33  | \$      | 6,381,65  | 5   | 3,674.78 | S        | 1.347.07 | 173,896 | 141.814   | 81,651  | 34,37 |
| ged                | 5/2/2011     | 33     | 6,714,152  | 927,373                | 271,718          | \$ 13.227.10      | 5         | 4,890.92  | \$      | 4,035.01  | J.  | 2,323,19 | ٤.       | 976.18   | 106,687 | 89,687    | 31,526  | 21,73 |
| Asy                | 8/1/2011     | 36     | 7.236,467  | 516,415                | 131,279          | \$ 6,807.55       | 3         | 2,723.92  | \$      | 2,246,43  | 5   | 1,291,43 | 5        | 544.60   | 80,512  | 43,522    | 28,743  | 12.10 |
| une                | 7/6/2013     | 35     | 7,446,104  | 235,637                | 63,181           | \$ 2,843.13       | \$.       | 1,137.26  | \$      | 998.24    | \$  | 340.20   | \$       | 227.45   | 25,272  | 20,850    | 12,004  | 3,03  |
|                    |              |        |  |                        | erage RFC cost a |                   |           |           |         |           |     |          |          | -        |         |           |         | 4.78  |
| kilg               | 8/1/2011     |        |  | 11,775                 | 3,450            |                   |           | 67.10     | \$      | 53.23     | \$  | 29.30    |          | 32.02    | 1,167   | 1,139     | 556     | 23    |
| August             | 9/1/2011     | 31     | Accessors and the second accessors accessors and the second accessors and the second accessors accessors and the second accessors and the second accessors accessors and the second accessors accessors and the second accessors accessors accessors and the second accessors accessors accessors and the second accessors access | 4,534                  | 1.328            |                   |           | 23.91     | 10/00/4 | 19.73     | ļ.š | 11.38    | Ž.,      | 4.78     | 331     | 438       | 252     | 10    |
| a plantia:         | 10/1/2011    | - 30   | Accommon philosophics  | 566,130                | 146,537          |                   | ********* | 1,637.66  | 1       | 2,176.07  | ļ   | 1.252.89 | Ž.,      | 327,53   | 58,615  | 48,357    | 27.842  | 11,72 |
| orteber            | 11/1/2011    | 3)     | 8,872,323  | 909,780                | 266,563          |                   |           | 4,798.14  | ž       | 3,958,46  | ÷   | 2,279,11 | <u>.</u> | 959.63   | 106,625 | 87,966    | 50,647  | 21,32 |
|                    | 12/1/2011    | . 30   |  | 1,244,508<br>1,420,628 | 364,754          |                   |           | 0,565.97  | ٤.      | 5,416.60  | -   | 3,116.65 | <u>*</u> | 1.213.11 | 345,963 | 120,369   | 69,303  | 29,18 |
| Vovember           |              |        |  |                        | 416,254          | S 18.781.41       | 1.3       | 2,492,57  | 3       | 6,191.37  | ¥   | 3,558.97 | <u>×</u> | 1/498.51 | 166,541 | 187,365   | 79.088  | 33,30 |
|                    | 3/8/2012     | **     | 31,387,802   | 4,74,26,55,75          | *******          | <u></u>           |           |           |         |           |     |          |          |          |         |           |         |       |
| ovember<br>erember | 3/8/2012     | ••••   | diject to man prot of  |                        | 1,198,886        |                   | 5         | 17,965.30 | *       | 14,271,79 | 5   | 5,500.97 | *        | 3,581.64 | 429,554 | 595,633   | 227,788 | 95,91 |
| ovember<br>erember | 3/8/2012     | ••••   | A  | \$ 44,763.00           |                  | 5 44.763.00       | <u>.</u>  | 17,965.36 | 3       | 14,771,79 |     | 5,504.97 | \$       | 3,581,64 | 429,854 | 885,632   | 227,788 | 95,93 |

The following is the production report for the bio-mass boiler.

| Bas                   | eline                        | 20         | 11                      |   | 2011 Usage a  | nd Rebate dat | a                             |
|-----------------------|------------------------------|------------|-------------------------|---|---|---------------|-------------------------------|
| Greehouse<br>(4 year) | Spec<br>Greenhouse<br>(2 Yr) | Greenhouse | Specialty<br>Greenhouse | Btu<br>reduction<br>via bio fuel<br>(in Therms) | uction Btu Savings point fuel Republic |               | UCPP<br>Recommended<br>rebate |
| 12,958                | 4,157                        | 4,575      | 3,930                   | 8,383   | 838,325,000   | 245,483       | \$ 3,682                      |
| 15,336                | 3,681                        | 3,726      | 3,601                   | 11,610  | 1,160,975,000   | 339,963       | \$ 5,099                      |
| 9,946                 | 3,331                        | 3,467      | 4,073                   | 6,479   | 647,875,000   | 189,714       | \$ 2,846                      |
| 8,824                 | 2,244                        | 1,792      | 2,017                   | 7,032   | 703,175,000   | 205,908       | \$ 3,089                      |
| 6,207                 | 2,499                        | 3,746      | 1,654                   | 2,461   | 246,075,000   | 72,057        | \$ 1,081                      |
| 4,509                 | 1,573                        | 884        | 1,455                   | 3,625   | 362,500,000   | 106,149       | \$ 1,592                      |
| 2,522                 | 661                          | 193        | 817                     | 2,329   | 232,850,000   | 68,184        | \$ 1,023                      |
| 1,111                 | 116                          | 0          | 515                     | 1,111   | 111,100,000   | 32,533        | \$ 488                        |
| 2,008                 | 358                          | 0          | 1,136                   | 2,008   | 200,800,000   | 58,799        | \$ 882                        |
| 4,298                 | 1,126                        | 2850       | 1556                    | 1,448   | 144,825,000   | 42,408        | \$ 636                        |
| 8,531                 | 2,528                        | 1,751      | 3,168                   | 6,780   | 678,000,000   | 198,536       | \$ 2,978                      |
| 13,230                | 3,337                        | 9,333      | 3,459                   | 3,897   | 389,725,000   | 114,122       | \$ 1,712                      |
| 89,479                | 25,607                       | 32,317     | 27,381                  | 57,162  | 5,716,225,000   | 1,673,858     | \$ 25,108                     |

| Installed Cost of System |            |        |  |
|--------------------------|------------|--------|--|
| First year lease         | \$         | 31,486 |  |
| Lease year 2-4           | \$         | 91,342 |  |
| Downpayment              | \$         | 11,000 |  |
| Installation             | \$         | 27,860 |  |
| Total                    | \$ 161,688 |        |  |
| Rebate Max (60% of cost) | \$         | 97,013 |  |
| First Year (2008)        | \$         | 24,062 |  |
| Second Year (2009)       | \$         | 34,404 |  |
| Third Year (2010)        | \$         | 31,002 |  |
|                          |            |        |  |
| Fourth Year (2011)       | \$         | 7,545  |  |

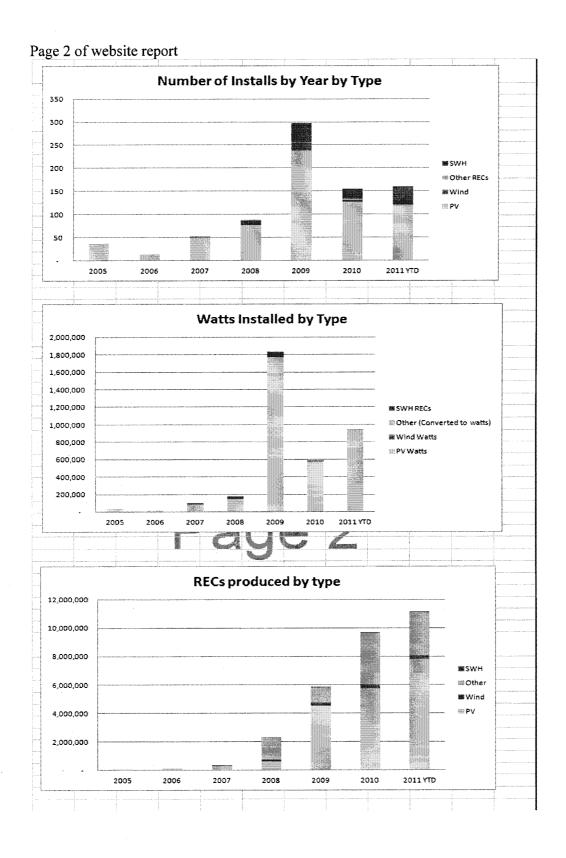
|                    | Project                 | Cost per kW = | \$ 132.53 |
|--------------------|-------------------------|---------------|-----------|
| /                  | Compared to P           | V             |           |
| 1kW of PV =        | 2190 kWh per            | year          |           |
| Fourth ye          | ar calculated p         | production    |           |
| 1,673,858 kWh =    | 764 kW of PV equivilent |               |           |
| Cost per REC =     | \$ 0.0029               | over 20 years |           |
| PV Reabate @ \$4.  | 00 per watt =           | \$ 3,057,275  |           |
| Biomasss converted | 1,080,560               | lbs           |           |

6. A description of the Affected Utility's procedures for choosing ERER and a certification from an independent auditor that those procedures are fair and unbiased and have been appropriately applied

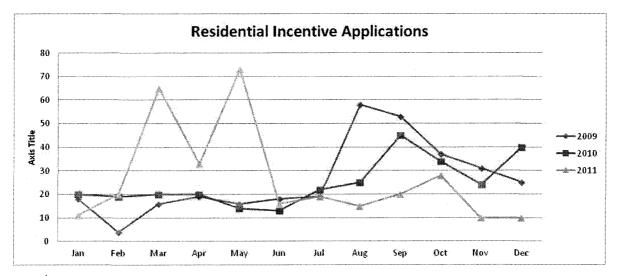
SSVEC maintains a reservation system that is based on the date of application. We do not use a competitive bidding system for projects so there is nothing for an independent auditor to review or certify.

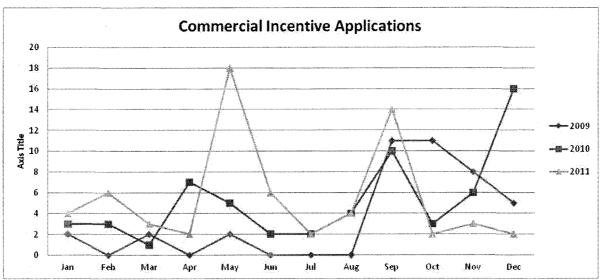
Report that is updated on our website monthly.

|  |  |  | Kenewa  | able Recap 1  | IOF 35VEC  |  |   |          |
|--|--|--|---|---|--|--|---|----------|
|  |  | PV   | W   | find  | 1  | Other  | Sola                                    | rWH      |
|  | Count  | Watts  | Count   | Watts   | Count  | RECs   | Count                                   | RECs     |
| 2005   | 37   | 35,593   |   |   |  |  |   |          |
| 2006   | 14   | 16,790   |   |   |  |  |   |          |
| 2007   | 49   | 83,145   | 3   | 15,000  |  |  |   |          |
| 2008   | 77   | 149,416  | 10  | 22,000  | II   | 1 1,604,12   | 9                                       |          |
| 2009   | 237  | 1,769,013  | 18  | 56,690  |  | 1 1,047,00   | 0 42                                    | 102,205  |
| 2010   | 127  | 568,404  | 4   | 9,200   | 11   | 2 3,635,62   | 1 22                                    | 61,999   |
| 2011 YTD   | 119  | 931,442  | 1   | 1,000   | <u> </u>   | 2 3,026,08   | 8 38                                    | 114,138  |
| <b>Totals</b>  | 660  | 3,553,803  | 36  | 103,890   |  | 2 9,312,83   | 8 102                                   | 278,342  |
|  |  |  |   |   |  |  |   |          |
|  | Total  | System Count =   | 800   | -   |  | :  |   |          |
|  |  |  |   |   | :  |  |   |          |
| rogram T   | otals Conve  | ted to RECs  |   |   |  |  |   |          |
| Assumption 6 hrs x nameplat  |  | te x 365 = annual  | RECs  |   |  |  |   |          |
| ssumptic   | on   | Wind has a 20%   | load factor (i.e.   | only produces na  | meplate output   | 20% of the day)  |   |          |
|  |  |  |   |   |  |  |   |          |
| V watt   |  | 3,553,803  |   |   |  |  |   |          |
| Vind Wat   | its  | 103,890  |   |   |  |  |   |          |
|  |  |  |   |   |  |  |   |          |
| V RECs   | i  | 7,782,829  |   |   |  |  |   |          |
| Vind REC:  | s  | 182,015  | 1   |   |  |  |   |          |
| Other REC  |  | 3,026,088  |   |   | 1  |  |   |          |
| WH RECS  |  | 278,342  |   |   | \  |  |   |          |
| otal REC   | 5  | 11,269,274   | Per Year (2011)   | YTD)  |  |  |   |          |
|  |  |  |   |   |  |  |   |          |
| 2011 MW  | h sales = 835  | 767  |   | Renewable   | Goal = 12,537 M  | Nh Achi  | eved YTD = 11                           | ,269 MWh |
|  |  |  |   | Percentage  | e of goal achieve  | d = 90%  |   |          |
|  | i  |  |   |   |  |  |   |          |
| rogram T   | otals Conve  | ted to Watts   |   | 1   |  |  |   |          |
| ssumption  | on   | RECs divided by  | 2190 = equivilent   | PV panel Watts  |  |  |   |          |
| ssumptio   | on   | Wind has a 20%   | load factor (i.e.   | only produces na  | imeplate output  | 20% of the day)  |   |          |
|  |  |  |   |   | -  |  |   |          |
| V Watts  |  | 3,553,803  |   |   | -  |  |   |          |
| Wind Wat   | ts   | 83   | (derated for as:  | sumed load facto  | or)  |  |   |          |
| Other Wat  | tts  | 1,382  |   |   |  |  |   |          |
| WH Watt  | LS   | 127  | ************  |   |  |  |   |          |
| Total Watt   | ts   | 3,555,395  | Installed   |   | . 4  |  |   |          |
|  |  |  | - Banadil 7.  |   |  |  |   |          |
| installed S  | Systems wait   | ing for Incentives   |   | 4 \ -/ \  |  |  |   |          |
|  |  | PV   | Wind  | SWH   | Total  |  |   |          |
|  | Residential  | 4  | О   | 12  | 16   | Specia   | Note: These:                            | 8        |
|  | C&i  | 2  | 0   | 0   | 2  |  | l systems were                          |          |
|  |  |  |   |   | 18   |  | eted in Decemi                          |          |
|  |  |  |   |   |  | aftert   | he December                             |          |
| - ** ** *  | ue of Incenti  | ves outstanding  |   | Residential   | \$ 33,8  |  | ive processing                          |          |
| poliar val   |  | AES COTSTRUCTURE   |   |   |  |  |   | enta I   |
| Jollar Val   | oc or mocrit   | ves constanting  |   | C&I   | \$ 15,7  |  | ne, not becaus                          |          |
| oliar vai  |  | ves vorstanding  |   | C&I<br>Total  | \$ 15,7<br>\$ 49,5   | 23 lack of   |   |          |
|  |  | NOT installed  |   |   |  | 23 lack of   |   |          |
|  |  |  |   |   |  | 23 lack of   |   |          |
| Systems R<br>Type  | teserved but   | NOT installed  |   |   |  | 23 lack of   |   |          |
| iystems R<br>Type<br>Res PV  | teserved but<br>Count  | NOT installed<br>Watts   |   |   |  | 23 lack of   |   |          |
| iystems R<br>Type<br>Res PV<br>Res SWH   | teserved but<br>Count<br>277   | NOT installed<br>Watts<br>1,691,478  |   |   |  | 23 lack of   |   |          |
| iystems R<br>Type<br>Res PV<br>Res SWH<br>RES Wind   | ceserved but<br>Count<br>277<br>123  | NOT installed<br>Watts<br>1,691,478<br>369,000   |   |   |  | 23 lack of   |   |          |
| Systems R<br>Type<br>Res PV<br>Res SWH<br>RES Wind<br>C&I  | ceserved but<br>Count<br>277<br>123<br>12  | NOT installed<br>Watts<br>1,691,478<br>369,000<br>39,000   |   |   |  | 23 lack of   |   |          |
| iystems R<br>Type<br>Res PV<br>Res SWH<br>RES Wind   | ceserved but Count 277 123 12 48   | NOT installed  Watts 1,691,478 369,000 39,000 1,055,260  |   |   |  | 23 lack of   |   |          |
| Type Type Res PV Res SWH RES Wind C&I  | ceserved but Count 277 123 12 48   | NOT installed  Watts 1,691,478 369,000 39,000 1,055,260 376,000  | \$ 4,526,645  |   |  | 23 lack of   |   |          |
| Systems R<br>Type<br>Res PV<br>Res SWH<br>RES Wind<br>L&I<br>C&I SWH   | teserved but Count 277 123 12 48 94  | NOT installed Watts 1,691,478 369,000 39,000 1,055,260 376,000  Reserved   | \$ 4,526,645<br>\$ 2,677,427  |   |  | 23 lack of   |   |          |
| Systems R<br>Type<br>Res PV<br>Res SWH<br>RES Wind<br>L&I<br>C&I SWH   | Count 277 123 12 48 94 al incentives   | NOT installed Watts 1,691,478 369,000 39,000 1,055,260 376,000  Reserved   |   |   |  | 23 lack of   |   |          |
| Systems R<br>Type<br>Res PV<br>Res SWH<br>RES Wind<br>L&I<br>C&I SWH   | Count 277 123 12 48 94 al incentives   | NOT installed Watts 1,691,478 369,000 39,000 1,055,260 376,000 Reserved  | \$ 2,677,427  |   |  | 23 lack of   |   |          |
| Systems R<br>Type<br>Res PV<br>Res SWH<br>RES Wind<br>C&I SWH<br>Residenti<br>C&I Incent   | ceserved but Count 2077 123 12 48 94 al Incentives tives Reserve   | NOT installed Watts 1,691,478 369,000 39,000 1,055,260 376,000 Reserved  | \$ 2,677,427  |   |  | 23 lack of   |   |          |
| Type Res PV Res SWH RES Wind C&I SWH Residenti   | ceserved but Count 2077 123 12 48 94 al Incentives tives Reserve   | NOT installed  Watts 1,691,478 369,000 1,055,260 376,000  Reserved ad Total  | \$ 2,677,427<br>\$ 7,204,071  | Total   | \$ 49,5  | 23 lack of   | funds                                   |          |
| Type Res PV Res SWH RES Wind Res SWH RES Wind Residentic Residentic Residentic Residentic Residentic Residentic  | teserved but Count 277 123 12 48 94 al Incentives tives Reserved 5s (PBI) 1,604,129  | NOT installed  Watts 1,691,478 369,000 1,055,260 376,000  Reserved ed Total  | \$ 2,677,427<br>\$ 7,204,071<br>This is the use   | Total  Of bio-mass to re  | \$ 49,5  | lack of  | funds.                                  |          |
| Type Res PV Res SWH RES Wind Res SWH RES Wind Residenti  | Leserved but Count 277 123 12 48 94 al Incentives tives Reserve  | NOT installed  Watts 1,691,478 369,000 1,055,260 376,000  Reserved d Total  RECs RECs  | \$ 2,677,427<br>\$ 7,204,071<br>This is the use of<br>This is the use of  | Total  of bio-mass to re  | \$ 49,5  | 96 lack of   | enhouse)                                |          |
| Type less PV less SWH RES Wind | teserved but Count 277 123 48 94 al incentives fleserve  25 (PBI) 1,604,129 1,047,000 1,568,849  | NOT installed  Watts 1,691,478 369,000 1,055,260 376,000  Reserved ed Total  RECs RECs RECs  | \$ 2,677,427<br>\$ 7,204,071<br>This is the use<br>This is the use<br>This is the use                                       | Total  of bio-mass to re of bio-mass to re of geo-Thermal   | \$ 49,5  | is (Sunizona Greesis (Sunizona Greesis (Sunizona Greesis (Sunizona Greesis Autural Gas and   | enhouse)                                |          |
| ystems R Type less PV less SWH less SWH less SWH less Wind less Wi | teserved but Count 277 123 12 48 94 al Incentives tives Reserve 1,604,129 1,047,000  | NOT installed  Watts 1,691,478 369,000 1,055,260 376,000  Reserved ed Total  RECs RECs RECs  | \$ 2,677,427<br>\$ 7,204,071<br>This is the use<br>This is the use<br>This is the use                                       | Total  of bio-mass to re of bio-mass to re of geo-Thermal   | \$ 49,5 place Natural Ga   | is (Sunizona Greesis (Sunizona Greesis (Sunizona Greesis (Sunizona Greesis Autural Gas and   | enhouse)                                |          |
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| Type Res PV Res SWH RES Wind RES Wind Residenti Cal Incent 2008 2009 2010  | teserved but Count 277 123 48 94 al Incentives Reserve 1,604,129 1,047,000 1,568,849 2,066,772   | NOT installed  Watts 1,691,478 369,000 1,055,260 376,000  Reserved ed Total  RECs RECs RECs  | \$ 2,677,427<br>\$ 7,204,071<br>This is the use<br>This is the use<br>This is the use<br>The 2010 bio-m                     | Total  of bio-mass to re of bio-mass to re of geo-Thermal   | \$ 49,5 place Natural Ga   | is (Sunizona Greesis (Sunizona Greesis (Sunizona Greesis (Sunizona Greesis Autural Gas and   | enhouse) enhouse) enhouse) is YTD (WXGr | eenhouse |
| Type Res PV Res SWH RES Wind Residenti Residenti List Incent 2008 2009 2010  | teserved but Count 277 123 48 94 al Incentives Reserve 1,604,129 1,047,000 1,568,849 2,066,772   | NOT installed  Watts 1,691,478 369,000 1,055,260 376,000  Reserved ed Total  RECS RECS RECS RECS   | \$ 2,677,427<br>\$ 7,204,071<br>This is the use<br>This is the use<br>This is the use<br>The 2010 bio-m                     | of bio-mass to re of bio-mass to re of Geo-Thermal vass RECs (Sunize  | place Natural Ga<br>pplace Natural Ga<br>energy to replace<br>on Greenhouse  | is (Sunizona Greesis (Sunizona Greesis (Sunizona Greesis (Sunizona Greesis Autural Gas and   | enhouse) enhouse) enhouse) is YTD (WXGr | eenhouse |
| Type Res PV Res PV Res SWH Res SWH Residentic Sci Incent Control Contr | teserved but Count 277 123 12 48 94 al Incentives Reserve 1,047,000 1,564,129 1,047,000 2,066,772 Current  | NOT installed  Watts 1,691,478 369,000 1,055,260 376,000  Reserved ed Total  RECS RECS RECS RECS   | \$ 2,677,427<br>\$ 7,204,071<br>This is the use<br>This is the use<br>This is the use<br>The 2010 bio-m                     | of bio-mass to re of bio-mass to re of geo-Thermal lass RECs (Sunize Spent  | place Natural Ga<br>place Natural Ga<br>energy to replaciona<br>Greenhouse<br>as of 1/1/12<br>Balance  | ack of lack of | enhouse) enhouse) enhouse) is YTD (WXGr | eenhouse |
| Type Res PV Res PV Res SWH Res SWH Res SWH Res SWH Residentic Si Incen 2008 2009 2010 2010   | teserved but Count 277 123 12 48 94 al incentives Reserved 1,604,129 1,047,000 1,568,849 2,066,772 Current i   | NOT installed  Watts 1,691,478 369,000 1,055,260 376,000  Reserved ad Total  RECS RECS RECS RECS RECS RECS   | \$ 2,677,427<br>\$ 7,204,071<br>This is the use of This is the use of This is the use of This 2010 bio-m                    | Total  of bio-mass to re of bio-mass to re of Geo-Thermal ass RECs (Sunized Spent Spent S 148,504   | splace Natural Gaplace Natural Gaplace Natural Gaplace Natural Gaplace Satural Gaplace Satura  | ss (Sunizona Gress (Sunizona Gress (Sunizona Gress Natural Gas and   | enhouse) enhouse) enhouse) is YTD (WXGr | eenhouse |
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| ystems R Type les PV les PV les SWH LES Wind les SWH les SWH les Incent Control of the les SWH Les Incent Control of the les SWH Les Incent Les Incent Control of the les SWH Les Incent Les Incent Control of the les SWH Les Incent Les SWH Les Incent Les SWH Les Incent Les SWH Les Incent Les SWH | Leserved but Count 277 123 12 48 94 al Incentives tives Reserve 1,604,129 1,047,000 1,568,849 2,066,772 Current I  | NOT installed  Watts 1,691,478 369,000 1,055,260 376,000  Reserved ed Total  RECs RECs RECs RECs RECs RECs RECs REC  | \$ 2,677,427<br>\$ 7,204,071<br>This is the use<br>This is the use<br>This is the use<br>The 2010 bio-m                     | of bio-mass to re of bio-mass to re of Bio-mass to re of Geo-Thermal hass RECs (Suniza Spent 5 146,504 5 140,575 5 788,018  | splace Natural Gaplace Natural Gaplace Natural Gaplace Natural Gaplace Sance S | Is (Sunizona Gress Natural Gas and 17,7% 6 22.0% 74.4%   | enhouse) enhouse) enhouse) is YTD (WXGr | eenhouse |
| ystems R Type les PV es SWH LES Wind 8.1 8.1 SWH Residenti 8.1 Incen  Other REC 2008 2009 2010 2010  C H H S U U U   | Leserved but Count 277 123 12 48 94 al Incentives Reserve 1,047,000 1,568,849 2,066,772 Current I coan Fund rogram Cost abitat for Hu conod Solar illity Scale F   | NOT installed Watts 1,691,478 369,000 1,055,260 376,000 Reserved ed Total RECS RECS RECS RECS RECS RECS RECS RECS  | \$ 2,677,427 \$ 7,204,071 This is the use this is the use this is the use the 2010 bio-m Balances  ng. Admin) debt service) | of bio-mass to re of bio-mass to re of bio-mass to re of geo-Thermal hass RECs (Suniza S 140.575 S 140.575 S 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5  | place Natural Gaplace Natural Gaplace Natural Gaplace Natural Gaplace Natural Gaplace Natural Gaplace Sana Greenhouse | s   Sunizona Gress      | enhouse) enhouse) enhouse) is YTD (WXGr | eenhouse |
| ystems R Type les PV les PV les SWH les SWH les SwH les SwH les SwH les SwH les John | teserved but Count 277 123 12 48 94 al Incentives Reserve tives Reserve 1,047,000 1,564,129 1,047,000 1,568,349 2,066,772  Current Cost abit for Hu chool Solar in Hu chool So | NOT installed Watts 1,691,478 369,000 1,055,260 376,000 Reserved ad Total RECS RECS RECS RECS RECS RECS RECS RECS  | \$ 2,677,427<br>\$ 7,204,071<br>This is the use<br>This is the use<br>This is the use<br>The 2010 bio-m                     | of bio-mass to re of bio-mass to re of bio-mass to re of Seo-Thermas to re of Seo-Thermas Sec. (Sunize Spent \$ 148.504 \$ 148.504 \$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5   | place Natural Ga<br>place Natural Ga<br>place Natural Ga<br>place Natural Ga<br>energy to replace<br>as of 1/1/12<br>Balance<br>\$ 57,726<br>\$ 91,436<br>\$ 15,467<br>\$ 670,254<br>\$ 670,254  | Is (Sunizona Grees Natural Gas and 17.7% 4.7% 4.7% 1.205.2% 1.09%  | enhouse) enhouse) enhouse) is YTD (WXGr | eenhouse |
| ystems R Type les PV les PV les SWH lES Wind les SWH l | Leserved but Count 277 123 12 48 94 al Incentives tives Reserve 1,604,129 1,047,000 1,568,849 2,066,772 Current I coan Fund rogram Cost abit at for Hu chool Solar it for Hu cho | NOT installed Watts 1,691,478 369,000 1,055,260 376,000 Reserved ed Total RECS RECS RECS RECS RECS RECS RECS RECS  | \$ 2,677,427<br>\$ 7,204,071<br>This is the use<br>This is the use<br>This is the use<br>The 2010 bio-m                     | Total  of bio-mass to re of bio-mass to re of Bio-mass to re of Geo-Thermal hass RECs (Suniza 140.575 \$ 146.504 \$ 140.575 \$ \$ 788.018 \$ - \$ \$ . \$ \$ . \$ . \$ . \$ . \$ . \$ . \$ .  | place Natural Gaplace Natural Gaplace Natural Gaplace Natural Gaplace Natural Gaplace S 57,726  Balance S 57,726  \$ 15,467  \$ 15,467  \$ 670,256  \$ 492,885  \$ (280,067)   | Is (Sunizona Gress (Sunizona Gress (Sunizona Gress (Sunizona Gress Natural Gas and 17,7% (20,00%) (4,7% (4,7 | enhouse) enhouse) enhouse) is YTD (WXGr | eenhouse |
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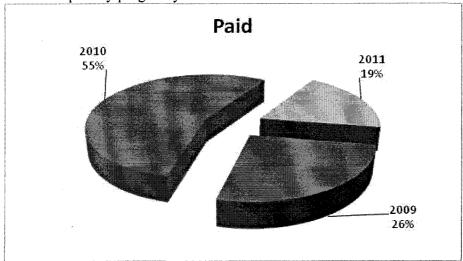


The following graphs illustrate the trends of our program.

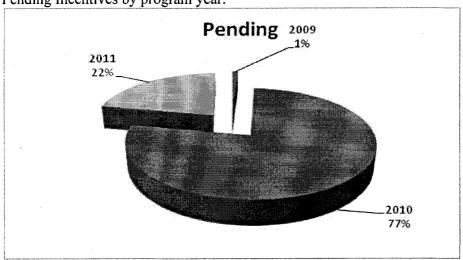




Incentives paid by program year.



Pending Incentives by program year.



2011 installs by program year

